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ECAT Physics Online Test

Sr	Questions	Answers Choice
1	When a platinum wire is heated, it appears dull red at about	A. 500°C B. 900°C C. 1100°C D. 1300°C
2	A charge of 0.1 c accelerated through a potential difference of 1000V acquires kinetic energy	A. 200 J B. 100 J C. 1000 J D. 400 J
3	Drag force increases if speed of the object moving through the fluid:	A. Increases B. Decreases C. Remains constant D. None of these
4	The smooth or steady streamline flow is known as	A. laminar flow B. turbulent flow C. both of them D. none of them
5	The flux through a closed surface depends upon:	A. <p class="MsoNormal">Shape of geometry of the closed surface<o:p></o:p></p> B. <p class="MsoNormal">Charge enclosed<o:p></o:p></p> C. <p class="MsoNormal">Nature of the medium<o:p></o:p></p> D. <p class="MsoNormal">Both (A) and (B)<o:p></o:p></p> E. <p class="MsoNormal">Both (B) and (C)<o:p></o:p></p>
6	transverse wave motion is possible in:	A. Air B. A mixture of NH₃and O₂ C. Strings D. All of these
7	Transformer is used to	A. Increase alternating current B. Increase d.c voltage

		C. Increase & Decrease emf D. All answers are right
8	Two projectiles are fired from the same point with the same speed at angles of projection 60° and 30° respectively. Which one of the following is true?	A. Their range will be same B. Their maximum height will be same C. Their landing velocity will be same D. Their time of flight will be same
9	A dirty carpet is to be cleaned by heating. This is in according with______law of motion.	A. First B. Second C. Third D. None of these
10	The instrument which detects the instant at which external pressure becomes equal to the systolic pressure is	A. stethoscope B. thermometer C. manometer D. barometer
11	A current carrying conductor is placed at right angle to the magnetic field. The magnetic force experienced by the conductor is	A. minimum B. maximum C. zero D. none of these
12	The smallest three dimensional basic structure in a crystalline solid is called	A. lattice point B. crystal lattice C. cubic crystal D. unit cell
13	In a resonance situation the amplitude of the motion may become extra ordinarily large, if	A. the driving force is large B. the driving force is zero C. the driving force may be feeble D. all of them
14	The path (or trajectory) described by a projectile is	A. a parabola B. a hyperbola C. a circle D. a straight line
15	The application of Bernoulli's equation is	A. Torricelli's theorem B. Venture relation C. Binomial theorem D. Both a and b
16	The amplitude of oscillation of each atom in a metallic crystal rises with the	A. rise in temperature B. decrease in temperature C. even temperature remains constant D. all of them
17	The energy of a photon in a beam of infrared radiation of wavelength 1240 nm is	A. 100 ev B. 10⁶e v C. 10³e v D. 1.0 e v
18	The direction of velocity is along the direction of	A. distance B. displacement C. acceleration D. all of them
19	Electric flux is:	A. Cross product of two vector<p class="MsoNormal"><o:p></o:p></p> B. <p class="MsoNormal">Dot product of two vectors<o:p></o:p> </p> C. <p class="MsoNormal">A vector quantity<o:p></o:p></p> D. <p class="MsoNormal">A scalar quantity<o:p></o:p></p> E. <p class="MsoNormal"><span style="font-size:12.0pt;line-

		height:107%;font-family: "Times New Roman","serif"">Both (B) and (D)<o:p></o:p></p>
20	When certain nucleus emits aβ-particles, is mass number:	A. Remain same B. Increases by one C. Decreases by one D. Decreases by four E. None of these